

IN THE CLAIMS:

Please substitute amended claims 1-11 as follows:

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1. (Amended) An optical sheet to be used as a screen on which an image is projected from an image projector, comprising:  
optical sheet members which are substantially identical and which each have a major surface, and whose optical properties  
5 over the respective major surfaces vary cyclically along a first direction and are substantially identical along a second direction orthogonal to the first direction;

10 wherein a region of the optical sheet members where said optical properties are substantially identical has an undulated portion along the second direction;

15 wherein said optical sheet is produced by joining the plurality of optical sheet members with respective end surfaces thereof which are substantially perpendicular to the respective major surfaces thereof meeting each other as joint surfaces; and

wherein respective ones of the optical sheet members meeting at the joint surfaces have undulations whose phases are synchronized with each other so that optical properties of the joint surfaces are substantially identical to each other within a predetermined permissible range.

2. (Amended) The optical sheet according to Claim 1, wherein the cyclically varying optical properties are attained by making surfaces of the optical sheet members which contain the

respective major surfaces, cyclically concave-convex in a  
5 direction of height of the optical sheet members perpendicular to  
the respective major surfaces.

3. (Amended) The optical sheet according to Claim 1,  
wherein a magnitude of the undulations corresponds to 2 pitches  
or less and a basic cycle of variation of the optical properties  
of the optical sheet members in the first direction corresponds  
5 to 1 pitch.

4. (Amended) The optical sheet according to Claim 1,  
wherein:

the optical sheet members are joined with a transparent  
adhesive sandwiched between the joint surfaces thereof;

5 a basic cycle of variation of the optical properties of the  
optical sheet members in the first direction corresponds to 1  
pitch; and

the transparent adhesive is applied to the surfaces of the  
optical sheet members, which contain the major surfaces thereof,  
10 over a width corresponding to a range from 1 pitch to 5 pitches  
across the joint surfaces, and then hardened.

5. (Amended) The optical sheet according to Claim 1,  
wherein:

a roughness of the joint surfaces of the optical sheet  
members is  $R_{max}$  0.8  $\mu$ m or less;

5 the optical sheet members are joined with a transparent adhesive sandwiched between the joint surfaces thereof; and the adhesive is hardened.

6. (Amended) The optical sheet according to Claim 1, wherein the predetermined permissible range within which the optical properties of the joint surfaces are regarded to be substantially identical to each other signifies that a difference between the optical properties falls within 50 % of a cyclic variation of the optical properties.

7. (Amended) The optical sheet according to Claim 2, wherein the predetermined permissible range within which the optical properties of the joint surfaces are regarded to be substantially identical to each other signifies that a magnitude of a mismatch in a direction of height of the joint surfaces between the end surfaces of the optical sheet members falls within 50 % of an amplitude of the cyclically concave-convex surfaces of the optical sheet members.

8. (Amended) The optical sheet according to Claim 1, wherein the phases of undulations are synchronized in order to make the optical properties substantially identical to each other within the predetermined permissible range by pairing respective ones of the optical sheet members that have undulations extended

in substantially a same direction relative to the joint surfaces thereof.

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9. (Amended) The optical sheet according to Claim 1, wherein the undulations are phased in order to make the optical properties of optical sheet members substantially identical to each other within the predetermined permissible range by pairing  
5. respective ones of the optical sheet members that have undulations extended in substantially symmetrical directions relative to the joint surfaces thereof.

10. (Amended) An optical sheet manufacturing system comprising:

an optical sheet cutting machine for cutting optical sheet members optimally for joining;

5. an optical sheet joining machine for joining the optical sheet members, which have been cut, with edges thereof optimally joining each other;

10. a reservoir in which at least one of the optical sheet members cut by said optical sheet cutting machine and an optical sheet produced by said optical sheet joining machine is stored;

a conveying machine for conveying the optical sheet members among said optical sheet cutting machine, said optical sheet joining machine, and said reservoir; and

15 a controller for controlling said optical sheet cutting machine, said reservoir, said optical sheet joining machine, and said conveying machine.

11. (Amended) An optical sheet cutting machine comprising:  
a platform on which an optical sheet member to be cut is placed and which enables adjustment of a slide position and a turn position on a major surface of the optical sheet member;

5 an investigating device for investigating a condition of the optical sheet member placed on said platform so as to determine a cutting line;

10 a cutting blade with which the optical sheet member is cut;  
a cutting drive source for driving said cutting blade at a same cut position; and

a feeding drive source for moving said cutting blade to change a cutting start position at which cutting of the optical sheet member is started with said cutting blade,

15 wherein the slide position and the turn position are adjusted using said platform so that a path along which said cutting blade is moved by said feeding drive source will be aligned with the cutting band line determined based on investigation performed by said investigating device; and

20 wherein said cutting blade is driven using said cutting drive source and moved along said cutting band line using said feeding drive source in order to trim the optical sheet member.